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**AMENDMENT TO THE CLAIMS** 

1. (Previously Presented) A high throughput method for screening lubricating oil

additive composition samples, under program control, comprising

(a) providing a plurality of different lubricating oil additive composition samples

comprising at least one lubricating oil additive, each sample being in a respective one of a

plurality of test receptacles;

(b) maintaining each sample at a predetermined temperature for a predetermined time;

(c) measuring the storage stability of each sample to provide storage stability data for

each sample; and,

(d) outputting the results of step (c).

2. (Original) The method of claim 1, wherein the at least one lubricating oil additive is

selected from the group consisting of antioxidants, anti-wear agents, detergents, rust inhibitors,

dehazing agents, demulsifying agents, metal deactivating agents, friction modifiers, pour point

depressants, antifoaming agents, co-solvents, package compatibilisers, corrosion-inhibitors,

ashless dispersants, dyes, extreme pressure agents and mixtures thereof.

3. (Original) The method of claim 1, wherein the test receptacles are fabricated from a

transparent glass.

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4. (Original) The method of claim 1, wherein the step (b) of maintaining each sample at

a predetermined temperature for a predetermined time is performed at a temperature of from

about 20°C to about 80°C.

5. (Original) The method of claim 4, wherein the predetermined period of time is at least

about one day.

6. (Original) The method of claim 1, wherein the step of measuring the storage stability

of each sample comprises determining the opacity or light scattering of the sample and

comparing the determined opacity or light scattering with the opacity or light scattering of a

reference sample.

7. (Original) The method of claim 6, wherein the opacity of the sample is determined by

measuring the intensity of light passed through a sample.

8. (Original) The method of claim 1, further comprising the step of agitating each

sample before measuring the storage stability of the sample.

9. (Original) The method of claim 1, wherein the plurality of samples are in a linear

array and are sequentially moved to a measuring station between a light source and a photocell

for individually measuring the storage stability of each sample.

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10. (Original) The method of claim 1, wherein each sample has affixed thereto a bar

code identifying the sample.

11. (Original) The method of claim 10, wherein a robotic assembly selectively retrieves

individual test receptacles from an array of test receptacles and individually positions said test

receptacles in a testing station for determination of the storage stability.

12. (Original) The method of claim 11, wherein said robotic assembly is controlled by a

computer.

13. (Currently Amended) The method of claim 12, wherein the result of step (c) for each

sample is transmitted to the computer, the computer compares the result with a predetermined

value delimiting a failure or passing of the result, and the computer identifies failed samples to

preclude further testing of the failed samples.

14. (Original) The method of claim 1, wherein the step of outputting comprises storing

the result of step (c) on a data carrier.

15. (Original) The method of claim 1, further comprising the step of using the result of

step (c) as a basis for obtaining a result of further calculations.

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16. (Original) The method of claim 14, further comprising the step of transmitting the

result of step (c) to a data carrier at a remote location.

17. (Original) The method of claim 15, further comprising the step of transmitting the

result of further calculations to a data carrier at a remote location.

18. (Original) The method of claim 1, wherein the storage stability measurement of step

(c) comprises a sedimentation measurement, color measurement or a viscosity measurement.

19. (Original) The method of claim 1, wherein the plurality of different lubricating oil

additive composition samples further comprise a diluent oil to form an additive concentrate.

20. (Previously Presented) A high throughput method for screening lubricating oil

composition samples, under program control, comprising:

(a) providing a plurality of different lubricating oil composition samples comprising (i) a

major amount of at least one base oil of lubricating viscosity and (ii) a minor amount of at least

one lubricating oil additive, each sample being in a respective one of a plurality of test

receptacles;

(b) maintaining each sample at a predetermined temperature for a predetermined time;

(c) measuring the storage stability of each sample to provide storage stability data for

each sample; and,

(d) outputting the results of step (c).

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21. (Original) The method of claim 20, wherein the base oil is a natural or synthetic oil.

22. (Original) The method of claim 20, wherein the lubricating oil additive is selected

from the group consisting of antioxidants, anti-wear agents, detergents, rust inhibitors, dehazing

agents, demulsifying agents, metal deactivating agents, friction modifiers, pour point

depressants, antifoaming agents, co-solvents, package compatibilisers, corrosion-inhibitors,

ashless dispersants, dyes, extreme pressure agents and mixtures thereof.

23. (Original) The method of claim 20, wherein the test receptacles are fabricated from a

transparent glass.

24. (Original) The method of claim 20, wherein the step (b) of maintaining each sample

at a predetermined temperature for a predetermined time is performed at a temperature of from

about 20°C to about 80°C.

25. (Original) The method of claim 24, wherein the predetermined period of time is at

least about one day.

26. (Original) The method of claim 20, wherein the step of measuring the storage

stability of each sample comprises determining the opacity or light scattering of the sample and

comparing the determined opacity or light scattering with the opacity or light scattering of a

reference sample.

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27. (Original) The method of claim 26, wherein the opacity of the sample is determined

by measuring the intensity of light passed through a sample.

28. (Original) The method of claim 20, further comprising the step of agitating each

sample before measuring the storage stability of the sample.

29. (Original) The method of claim 20, wherein the plurality of samples are in a linear

array and are sequentially moved to a measuring station between a light source and a photocell

for individually measuring the storage stability of each sample.

30. (Original) The method of claim 20, wherein each sample has affixed thereto a bar

code identifying the sample.

31. (Original) The method of claim 30, wherein a robotic assembly selectively retrieves

individual test receptacles from an array of test receptacles and individually positions said test

receptacles in a testing station for determination of storage stability.

32. (Original) The method of claim 31 wherein said robotic assembly is controlled by a

computer.

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preclude further testing of the failed samples.

33. (Currently Amended) The method of claim 32, wherein the result of step (c) for each sample is transmitted to the computer, the computer compares the result with a predetermined value delimiting a failure or passing of the result, and the computer identifies failed samples to

34. (Original) The method of claim 20, wherein the step of outputting comprises storing the result of step (c) on a data carrier.

35. (Original) The method of claim 20, further comprising the step of using the result of step (c) as a basis for obtaining a result of further calculations.

36. (Original) The method of claim 34, further comprising the step of transmitting the result of step (c) to a data carrier at a remote location.

- 37. (Original) The method of claim 35, further comprising the step of transmitting the result of further calculations to a data carrier at a remote location.
- 38. (Original) The method of claim 20, wherein the storage stability measurement of step (c) comprises a sedimentation measurement, color measurement or a viscosity measurement.

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39. (Original) A system for screening lubricant performance, under program control,

comprising:

a) a plurality of test receptacles, each containing a different lubricating oil composition

sample comprising (a) a major amount of at least one base oil of lubricating viscosity and (b) a

minor amount of at least one lubricating oil additive;

b) receptacle moving means for individually positioning said test receptacles in a testing

station for measurement of storage stability in the respective sample;

c) means for measuring the storage stability in the sample moved to the testing station to

obtain storage stability data associated with said sample and for transferring said storage stability

data to a computer controller, wherein said computer controller is operatively connected to the

means for individually moving the test receptacles.

40. (Previously Presented) The system of claim 39, wherein said receptacle moving

means comprises a movable carriage.

41. (Original) The system of claim 39, wherein the receptacle moving means comprises

a robotic assembly having a movable arm for grasping and moving a selected individual

receptacle.

42. (Original) The system of claim 39, wherein the receptacle moving means comprises

means for agitating the test receptacles.

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43. (Original) The system of claim 39, wherein the testing station includes a light source and a photocell aligned with the light source.

44. (Original) The system of claim 39, wherein each test receptacle has a bar code affixed to an outer surface thereof.

45. (Original) The system of claim 44, further comprising a bar code reader.